ORDER

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

6980.17 A

5/6/77

SUBJ: STANDBY POWER REPORTING SYSTEM (RIS: AF 6980.1)

- 1. <u>PURPOSE</u>. This order establishes the continuing responsibilities and procedural guidelines required to maintain and update the engine generator data base.
- 2. <u>DISTRIBUTION</u>. This order is distributed to selected offices and services in Washington headquarters, NAFEC, and the Aeronautical Center; to regional Airway Facilities divisions to branch level, and to Airway Facilities field offices having engine generators.
- 3. <u>CANCELLATION</u>. Order 6980.17, Standby Power Reporting System Implementation (RIS: AF 6980.1) is canceled.
- 4. BACKGROUND. An engine generator data base was established by the implementation of Order 6980.17 and, accordingly, procedures for data base maintenance and update have been developed. This order implements the maintenance and update procedures and responsibilities on a continuing basis so that program information will be current, accurate, and readily accessible for use in the management of the standby power program.
- 5. $\underline{\text{SCOPE}}$. The system outlined in this order is designed to provide the continuing physical status of the standby power systems through the use of a rapid data retrieval system and information data bank. The standby power system covered by this order is the engine generator and its associated equipment.
- 6. SUMMARY. The system prescribed in this order provides for uniform and positive reporting of the following standby power systems and projects:
 - a. F & E direct-funded standby engine generators and associated projects.
 - b. Operations-funded standby engine generators and associated projects.
 - c. Standby engine generators relocated by regional personnel.
 - d. All standby power covered by Order 6030.20B, Provision of Electrical Power for National Airspace System Facilities.

- 7. OBJECTIVE. The overall objectives of the standby power program reporting system are:
 - a. To improve the accessibility and accuracy of program information.
 - b. To maintain effective planning and control of the standby power program.
 - c. To maintain essential management data required to meet agency goals in programs for the establishment of new facilities and upgrading of existing facilities.
 - d. To provide management data useful in determining standby power problem areas and developing appropriate solutions.
 - e. To provide on a continuing basis the status of the standby power system at each facility in the National Airspace System.
 - f. To provide accurate information on quantity, location, and change status.
 - g. To provide locations of standby power installations for distribution of directives.

8. RESPONSIBILITIES.

- a. Each Airway Facilities sector office is responsible for:
- (1) Providing complete data for all new, relocated, or modified power systems at each facility within its respective sector, including portable engine generators and units in storage.
 - (2) Completing the data sheets, showing changes including installation, relocation, or modification actions, using the data base description as identified in appendix 2.
 - (3) Collection and review of data sheets.
- * (4) Quarterly transmittal of the completed data sheets directly to the regional Airway Facilities division, with cut-off dates of December 15, March 15, June 15, and September 15. However, data sheets may be submitted monthly or as often as desired.

b. Each regional Airway Facilities division is responsible for:

- (1) Distribution of relative material (address lists, data sheets, notices, etc.) to AF sectors as required, to maintain the the data base.
- (2) Providing assistance and guidance to the sectors as required to maintain the data base descriptors and update data.
- (3) Collection, review, and consolidation of completed data sheets and quarterly submission of these sheets to the Airway Facilities Service (AAF-530), with cut-off dates of January 1, April 1, July 1, and October 1. However, data sheets may be submitted monthly or as often as desired.
 - (4) Providing timely updating information for the central data base as given by the sector under paragraph 8 a(4). Updating shall not be delayed for more than 90 days after a change occurs. Data sheets will be submitted to AAF-530 for processing on a quarterly basis, with cut-off dates of January 1, April 1, July 1, and October 1. However, data sheets may be submitted monthly or as often as desired.
 - (5) Ensuring that the central data base information is correct and current as of January 20, April 20, July 20, and October 20. *
 - (6) Coordination and monitoring of that section of the central data base pertaining to that region.
 - (7) Ensuring that all engine generators installed or stored (within the region) are included in the data base.

c. The Aeronautical Center is responsible for:

- (1) Providing complete data for all new or used standby power systems held in storage at the FAA Depot, including mobile emergency powerplants and standby power systems used at the FAA Academy. This is to include all receipts and shipments of engine generators into and out of the FAA Depot.
 - (2) Completing the data sheet (appendix 1) using the data base description as identified in appendix 2.
 - (3) Collection and review of data sheets.

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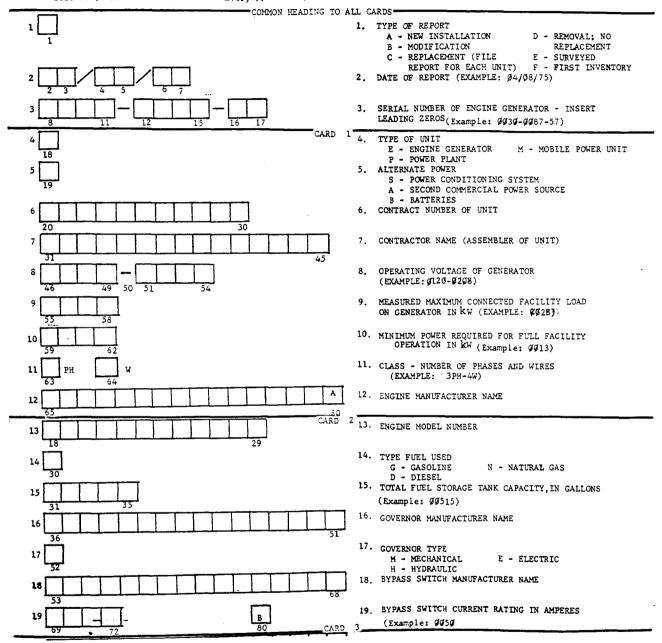
(4) Monthly transmittal of the completed data sheets directly to the Airway Facilities Service (AAF-530), with a cut-off date of the 15th of each month.

- d. The Airway Facilities Service is responsible for:
 - (1) Maintaining the central data base and supportive software. (AAF-500 responsibility.)
 - (2) Furnishing and programming update information relative to the national procurement of engine generators and units stored in the FAA Depot. (AAF-500 responsibility.)
 - (3) Maintaining the data base for use by all FAA offices as required. (AAF-500 responsibility.)
 - (4) Monitoring and updating the data base quarterly so that the data base is current as of January 20, April 20, July 20, and October 20. (AAF-500 responsibility.)
- 9. <u>DEFINITIONS</u>. For the purpose of this order, the definitions in appendix 2 shall be used. The list of defined terms is provided as a convenience and is intended to provide a clear text for each reporting phase of the standby power project required. Reference to source directives is included with the definitions where appropriate.
- 10. FORMS AVAILABILITY. FAA Form 6980-4(3-77), Standby Power Systems, supersedes FAA Form 6980-4(11-75), Engine Generator Data Sheet, which will no longer be used. FAA Form 6980-4 will be available by June, 1977, and will be stocked in the FAA Depot, NSN: 0052-00-863-400, unit of issue: Sheet.

WARREN C. SHARP Director, Airway Facilities Service

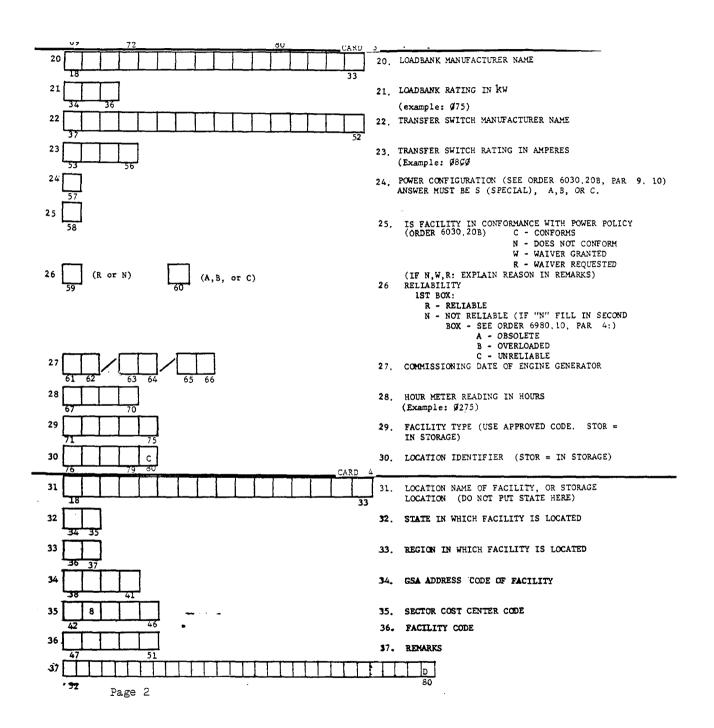
APPENDIX 1. INSTRUCTIONS FOR DATA COLLECTION SHEET, STANDBY POWER SYSTEMS

Fill in the boxes with the following requested information. PLEASE PRINT. Slash the zeros as shown to distinguish them from the letter "O". If the required information will not fit in the space provided or is not applicable (special cases), explain briefly in the "remarks" section. (NOTE: do not insert negative answers such as "none," "not known," "does not apply," etc.) Always start with the left box. Reference Order 6980.17A, Appendix 2, for further definitions of the data items.



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APPENDIX 2. STANDBY POWER REPORTING SYSTEM DEFINITIONS FOR DATA BASE DESCRIPTORS

1. Type of Report.

- A New installation (Ref. FAA Form 6980-4 as shown in appendix 1. Complete all items.
- B Modification (Ref. FAA Form 6980-4 as shown in appendix 1. Fill in items 1,2,3,29,30,31,32,33, 34,35, and 36, plus any other necessary fields.)

C - Replacement

(Unit taken out - ref. FAA
Form 6980-4 as shown in
appendix 1. Fill in item 1,2,3,
29,30,31,32,33,34,35, and
36.)
(Unit going into facility ref. FAA Form 6980-4
as shown in appendix 1.
Fill in all applicable
fields)

D - Removal - No replacement

(Ref. FAA Form 6980-4 as shown in appendix 1. Fill in items 1,2,3, 29,30,31,32,33,34,35 and 36)

- E. Surveyed (Ref. FAA Form 6980-4 as shown in appendix 1. Fill in items 1,2,3,4,29,30,31,32,33,34,35, and 36)
- F. First (original) inventory. (No more reports will have this code).
- 2. Date of Report. This item represents the currency of the report data. It is the actual date of collection of data and preparation of the report.
- 3. Serial Number. Serial number of the engine generator. Example: 30-658-59 becomes \$\phi 930-\phi 658-59\$.
- 4. Type of Unit.

Example + E-- Engine generator

P - Powerplant

M - Mobile power unit

5. Alternate Power. Secondary source of prime or standby power, if any.

Example: S - Power conditioning system

A - Second commercial power source

B - Batteries

6. Contract Number of Unit. The contract number of the engine generator unit or powerplant. Example: FAA72AC1441 (Note: Dashes and spaces are not permitted in the field.)

7. Contractor Name/Assembler of Unit. The name of the contractor (unit assembler). Example:

AUTOMATIC ELEC CATERPILLAR ATLANTIC COLUMBIA CONSOLIDATED CUMMINS DAYTON ELECTRIC MACH DARR FAA FABRICK EMERSON GENERAL MOTORS HOLGAR FERMONT HOLT
JOHN REINER
KOHLER HOLLINGSWORTH IDECO INET SPRAGUE KATO KING KNIGHT LEROI LIBBY WEIDING ONAN PORTER ONAN PORTER
RUSSELL SALYERS EQUIP
SEARS ROEBUCK SIMPLEX
STEWART STEVENS SWAN ELECTRIC
TMC US MOTORS PRICE SCHOONMAKER SINEX TMC US MOTORS
WAUKESHA WEST COAS
WHITE SUPERIOR WINPOWER SWEINHART WARNER SWASEY
WESTINGHOUSE WEST COAST ENG

8. Operating Voltage of Generator. The operating voltage of the generator. Example: $(\emptyset 12\emptyset - \emptyset 24\emptyset)$ or $(\emptyset 12\emptyset - \emptyset 2\emptyset 8)$.

9. Measured Maximum Connected Facility Load in kW. This is the facility load in kW as calculated using a power factor of 0.8 and the load current measured at the facility entrance switch using a clamp-on ammeter. (Example: 0030)

10. Critical Load. Minimum power required for full operation of the facility, in kw. (Example: Ø45Ø)

- 11. Class. Number of phases and wires of the generator. Example: $\overline{\text{(3 phase 4 wire)}}$ becomes (3 ph 4 w).
- 12. Engine Manufacturer's Name. The name of the engine manufacturer. Example:

ALLIS CHALMERS	BEDFORD DIESEL	BRIGGS STRATTON
CATERPILLAR	CHRYSLER	CONTINENTAL
CRAFTSMAN	CUMMINS	DETROIT DIESEL
FORD	HERCULES	INTERNATIONAL
JOHN REINER	KOHLER	LEROI
ONAN	Р Н	WARNER SWASEY
WAUKESHA	WHITE SUPERIOR	WILLYS

- 13. Engine Model Number. The engine model number. Example: R602, NT335, D342, etc. (Note: Dashes and spaces are not permitted in this field.)
- 14. Fuel. The type of fuel used.
 - G Gasoline
 - D Diesel
 - N Natural gas
- 15. Total Fuel Storage Capacity. The total capacity of the storage tank(s), in gallons. (Example: 00515)
- 16. Governor Manufacturer's Name. The governor manufacturer's name.

ANDERSON	BENDIX	BOSCH
CATERPILLAR	CURTIS WRIGHT	ELECTRIC REG
FAIRBANK MORSE	GOVOHM	HOOF
INDUSTRIAL	INTERNATIONAL	JOHN REINER
KOHLER	LEROI	MARQUETTE
MASSEY	METERING CONTROL	MONARCH
ONAN	PENN ELECTRIC	PIERCE
ROOSAMASTER	ROOSATRONIC	SIMMS
STANADYNE	SYNCHROSTART	UMMUAR
WAUKESHA-	WESTINGHOUSE	WOODWARD
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BULLDOG

RUSSELL

TRUMBULL

WESTINGHOUSE

- 17. Governor Type. The type of governor installed.
 - M Mechanical
 - H Hydraulic
 - E Electric
- 18. Bypass Switch Manufacturer's Name. The name of the manufacturer of the bypass switch. Example:

AMER SOLENOID ARROW HART ALLEN BRADLY BARKELEW
ELEC SPECIALTY FAA
GENERAL ELECTRIC HOME MADE
MEYERS
BUSSELL ASC0 CUTLER HAMMER FEDERAL PACIFIC INSTRUMENT LAB POWERCON ONAN SWITCH GEAR SQUARE D WADSWORTH UNKNOWN ZENITH WOODWARD

- 19. Bypass Switch Capacity. The current rating of the bypass switch, in amperes. Example: 0050.
- 20. Loadbank Manufacturer's Name. The name of the manufacturer of the loadbank.

Example:

ASSOCIATED AMERICAN RECT AEROTRONIC CANO CROWN EMS BULLDOG AVTRON CHROMOLOX CHAMPION EAGLE DIXIE GENERAL ELECTRIC HOLLINGSWORTH
JOHNSON ELECTRIC KING KNIGHT
LOCAL MFR MARINE VIEW
NANODYNE NELCO
POST GLOVER RUSSELL
SIMPLEX SO WEST ELECT FEDERAL PACIFIC EXMET FERMONT INET SPRAGUE LABPOWER MARKEL PAUL MORROW SO WEST ELECT CO SCHAFFER UNKNOWN US CONTRACTOR TECH SWAN US CONTROLS TMC WESTERN ELECTRIC WIEGAND WADSWORTH WOLFE & MANN

21. Loadbank Rating. The rating of the loadbank in kW. (Leave blank if no loadbank is permanently installed.) Example: Ø21

22. Transfer Switch Manufacturer's Name. The name of the manufacturer of the transfer switch. Example:

BULLDOG ANDERSON ASC0 ELECT SPECIALTY CLARK CONTROL CUTLER HAMMER FEDERAL PACIFIC GENERAL ELECTRIC MONITOR CONTROL KOHLER LAKESHORE ONAN POWERCON RUSSELL **SEARS** SIMPLEX SQUARE D SWITCH GEAR SWAN STRUTHERS DUNN UNKNOWN WESTINGHOUSE TRUMBULL WINPOWER ZENITH

23. Transfer Switch Rating. The rating of the transfer switch, in amperes. Example: 0200

24. <u>Power Configuration.</u> The actual power configuration of the facility as defined in Order 6030.20B, Provision of Electrical Power for National Airspace System Facilities. Example: Configuration A,B,C, or S.

25. <u>Conformance of Facility to Power Policy</u>. Is the facility electrical system in conformance with the power policy (Order 6030.20B)?

Example: C - Conforms

N - Does not conformW - Waiver grantedR - Waiver requested

Explain reason for waiver and nonconformance under remarks (item 37).

26. Reliability of the Standby Power Unit. The actual reliability (performance record) of the standby power unit. Example: reliable, not reliable.

(Seε Order 6980.10, Replacement of Obsolescent, Overloaded, or Unreliable Engine Generators, paragraph 4). If not reliable, which of the following reasons best describes the cause?

A - Obsolescent

B - Overloaded

C - Unreliable - other causes

27. Commissioning Date. The date the engine generator or powerplant was commissioned.

- 28. Hour Meter Reading. The hours shown on the engine generator hour meter on the date of this report. (Example: 5031)
- 29. Facility Type. The type of facility as indicated in the Facility Master File. When supplying several facilities, use primary facility type and location identifier of other facilities in item 37 (remarks). Example: RCAG, ASR, ARSR, VOR, etc. (Left-justified.)
- 30. <u>Location Identifier.</u> The facility location identifier as indicated in the Facility Master File. Example: MKCC, OHM, DOT, RNI, etc. (Left-justified.)
- 31. <u>Location Name.</u> The facility location name as indicated in the Facility Master File. Example: Omaha, Lincoln, Richland, Topeka, etc.
- 32. State in which Facility is Located. Standard agency two-letter state abbreviation as indicated in the Facility Master File. Example:

Alaska	AK	Missouri	МО
Alabama	AL	Montana	MΤ
Arizona	AZ	Nebraska	NE
Arkansas	AR	Nevada	NV
California	CA	New Hampshire	NH
Canal Zone	CZ	New Jersey	NJ
Colorado	CO	New Mexico	NM
Connecticut	CT	New York	NY
Delaware	DE	North Carolina	NC
Dist. of Col.	DC	North Dakota	ND
Florida	FL	Ohio	OH
Georgia	GA	Oklahoma	OK
Hawaii	ΗI	Oregon	OR
Idaho	ID	Pennsylvania	PA
Illinois	IL	Puerto Rico	PR
Indiana	$\mathbb{I}\!N$	Rhode Island	RΙ
Iowa	IA	South Carolina	SC
Kansas	KS	South Dakota	SD
Kentucky	KY	Tennessee	TN
Louisiana	LA	Texas	TX
Maine	ME	Utah	UT
Maryland	MD	Vermont	VT
Massachusetts	MA	Virginia	VA
Michigan	MI	Virgin Islands	VI
Minnesota	MN	Washington	WA
Mississippi	MS	West Virginia	WV
		Wisconsin	WI

Special island groups will be coded as follows:

British West Indies will be Bahama	BH
Swan Island will be Caribbean	CB
Guam will be Pacific	PC
Samoa will be Pacific	
Wake Island will be Pacific	PC

- 33. Region in Which Facility is Located. The region standard two-letter code as indicated in the Facility Master File. Example: CE, NE, AL, SO, SW, NW, etc.
- 34. GSA Address Code of Facility. The GSA address code as indicated in the Facility Master File.
- 35. <u>Sector Cost Center Code</u>. The sector cost center code as indicated in the Facility Master File.
- 36. <u>Facility Code</u>. The facility code as indicated in the Facility Master File.
- 37. Remarks.

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